AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (Previously presented) A method for selectively auditing accesses to a
2	relational database, comprising:
3	receiving a query for the relational database;
4	selectively auditing an access to the relational database,
5	wherein selectively auditing the access involves
6	automatically modifying the query prior to processing the query, so
7	that processing the query causes an audit record to be created and
8	recorded only for rows in relational tables that are accessed by the
9	query and that satisfy an auditing condition,
10	wherein satisfying the auditing condition allows selective
11	auditing of the query and not for other rows,
12	wherein the auditing condition specifies a condition based on
13	a value of a field in a row in the relational database, and
14	wherein satisfying the auditing condition allows selective
15	auditing of the query,
16	wherein if the query includes a select statement, inserting a
17	case statement into the select statement that calls a function that
18	causes the audit record to be created and recorded if the auditing
19	condition is satisfied,
20	wherein inserting the case statement into the query further
21	comprises:

22	inserting the case statement into the query,
23	allowing a query processor to allocate buffer for the
24	query,
25	removing the case statement from the query,
26	allowing the query processor to generate a query plan
27	for the query, and
28	scheduling the case statement near the end of the
29	query plan to ensure that the case statement is evaluated only
30	after other conditions of the query are satisfied, so that the
31	auditing record is created only for rows that are actually
32	accessed by the query;
33	processing the modified query to produce a query result, wherein processing
34	the modified query includes,
35	creating the auditing records for rows in relational tables that
36	are accessed by the query and that satisfy the auditing condition, and
37	recording the audit record in an audit record store; and
38	returning the query result.
1	2 (Canceled).
1	3. (Previously presented) The method of claim 1, further comprising
2	ensuring that the case statement is evaluated near the end of the query processing so
3	that the case statement is evaluated only after other conditions of the query are
4	satisfied.
1	4 (Canceled).
1	5. (Original) The method of claim 1, wherein if the query modifies at least
2	one entry in the relational database, using a relational database system trigger to
2	areate and record the audit record for the modification to the relational database

1	6 (Canceled).
1	7. (Original) The method of claim 1, wherein the audit record includes:
2	a user name for a user making the query;
3	a time stamp specifying a time of the query; and
4	a text of the query.
1	8. (Original) The method of claim 1, wherein the auditing condition
2	includes a condition for a field within the relational database.
1	9. (Previously presented) A computer-readable storage medium storing
2	instructions that when executed by a computer cause the computer to perform a
3	method for selectively auditing accesses to a relational database, the method
4	comprising:
5	receiving a query for the relational database;
6	selectively auditing an access to the relational database,
7	wherein selectively auditing the access involves
8	automatically modifying the query prior to processing the query, so
9	that processing the query causes an audit record to be created and
10	recorded only for rows in relational tables that are accessed by the
11	query and that satisfy an auditing condition,
12	wherein satisfying the auditing condition allows selective
13	auditing of the query and not for other rows,
14	wherein the auditing condition specifies a condition based on
15	a value of a field in a row in the relational database, and
16	wherein satisfying the auditing condition allows selective
17	auditing of the query,
18	wherein if the query includes a select statement, inserting a
19	case statement into the select statement that calls a function that
20	causes the audit record to be created and recorded if the auditing

21	condition is satisfied,
22	wherein inserting the case statement into the query further
23	comprises:
24	inserting the case statement into the query,
25	allowing a query processor to allocate buffer
26	for the query,
27	removing the case statement from the query,
28	allowing the query processor to generate a
29	query plan for the query, and
30	scheduling the case statement near the end of
31	the query plan to ensure that the case statement is
32	evaluated only after other conditions of the query are
33	satisfied, so that the auditing record is created only
34	for rows that are actually accessed by the query;
35	processing the modified query to produce a query result, wherein processing
36	the modified query includes:
37	creating the auditing records for rows in relational tables that
38	are accessed by the query and that satisfy the auditing condition, and
39	recording the audit record in an audit record store; and
40	returning the query result.
1	10 (Canceled).
1	11. (Previously presented) The computer-readable storage medium of claim
2	9, wherein the method further comprises ensuring that the case statement is
3	evaluated near the end of the query processing to that the case statement is
4	evaluated only after other conditions of the query are satisfied.

1	12. (Original) The computer-readable storage medium of claim 9, wherein
2	the method further comprises retrieving the auditing condition for a given table
3	from a data structure associated with the given table.
1	13. (Original) The computer-readable storage medium of claim 9, wherein if
2	the query modifies at least one entry in the relational database, the method further
3	comprises using a relational database system trigger to create and record the audit
4	record for the modification to the relational database.
1	14 (Canceled).
1	15. (Original) The computer-readable storage medium of claim 9, wherein
1	the audit record includes:
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3	a user name for a user making the query;
4	a time stamp specifying a time of the query; and
5	a text of the query.
1	16. (Original) The computer-readable storage medium of claim 9, wherein
2	the auditing condition includes a condition for a field within the relational database.
1	17. (Previously presented) An apparatus that selectively audits accesses to a
2	relational database, comprising:
3	a receiving mechanism configured to receive a query for the relational
4	database;
5	a selective auditing mechanism configured to selectively audit an access to
6	the relational database,
7	wherein selectively auditing the access involves
8	automatically modifying the query prior to processing the query, so
9	that processing the query causes an audit record to be created and
10	recorded only for rows in relational tables that are accessed by the

11	query and that satisfy an auditing condition,
12	wherein satisfying the auditing condition allows selective
13	auditing of the query and not for other rows,
14	wherein the auditing condition specifies a condition based on
15	a value of a field in a row in the relational database, and
16	wherein satisfying the auditing condition allows selective
17	auditing of the query,
18	wherein if the query includes a select statement, inserting a
19	case statement into the select statement that calls a function that
20	causes the audit record to be created and recorded if the auditing
21	condition is satisfied,
22	wherein inserting the case statement into the query further
23	comprises:
24	inserting the case statement into the query,
25	allowing a query processor to allocate buffer
26	for the query,
27	removing the case statement from the query,
28	allowing the query processor to generate a
29	query plan for the query,
30	and scheduling the case statement near the
31	end of the query plan to ensure that the case statement
32	is evaluated only after other conditions of the query
33	are satisfied, so that the auditing record is created
34	only for rows that are actually accessed by the query;
35	a query processor that is configured to process the modified query to
36	produce a query result, wherein processing the modified query includes:
37	creating the auditing records for rows in relational tables that
38	are accessed by the query and that satisfy the auditing condition, and
39	recording the audit record in an audit record store; and
40	a returning mechanism that is configured to return the query result.

1 18 (Canceled).

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1	19. (Previously presented) The apparatus of claim 17, wherein the query
2	modification mechanism is configured to ensure that the case statement is evaluated
3	near the end of the query processing so that the case statement is evaluated only
4	after other conditions of the query are satisfied.

- 20. (Original) The apparatus of claim 17, wherein the query modification mechanism is configured to retrieve the auditing condition for a given table from a data structure associated with the given table.
- 21. (Original) The apparatus of claim 17, wherein if the query modifies at least one entry in the relational database, the apparatus uses a relational database system trigger to create and record the audit record for the modification to the relational database.
- 1 22 (Canceled).
- 1 23. (Original) The apparatus of claim 17, wherein the audit record includes:
- 2 a user name for a user making the query;
- a time stamp specifying a time of the query; and
- 4 a text of the query.
- 24. (Original) The apparatus of claim 17, wherein the auditing condition includes a condition for a field within the relational database.
- 25. (Previously presented) The method of claim 1, further comprising retrieving the auditing condition for a given table from a data structure associated with the given table.

i	26. (Currently amended) A method for selectively additing accesses to a
2	relational database, comprising:
3	receiving a database operation for the relational database;
4	selectively auditing an access to the relational database based on an
5	auditing condition, wherein the auditing condition specifies a condition based on a
6	value of a field in a row in the relational database;
7	processing the database operation to produce a database operation result,
8	wherein processing the database operation includes:
9	creating the auditing records for selected rows in the
0	relational database that are accessed by the database operation,
1	wherein the selected rows satisfy the auditing condition, and
2	recording the audit record in an audit record store; and
13	returning the database operation result;
4	wherein selectively auditing the access involves automatically modifying
15	the database operation prior to processing the database operation;
6	wherein processing the database operation causes an audit record to be
17	created and recorded only for rows in relational tables that are accessed by the
8	database operation and that satisfy an auditing condition;
9	wherein satisfying the auditing condition allows selective auditing of the
20	database operation and not for other rows;
21	wherein satisfying the auditing condition allows selective auditing of the
22	database operation;
23	wherein if the database operation includes a select statement, inserting a
24	case statement into the select statement that calls a function that causes the audit
25	record to be created and recorded if the auditing condition is satisfied; and
26	wherein if inserting the case statement into the database operation further
27	comprises inserting the case statement into the database operation:

28	allowing a database operation processor to allocate buffer
29	for the database operation,
30	removing the case statement from the database operation,
31	allowing the database operation processor to generate a
32	database operation plan for the database operation, and
33	scheduling the case statement near the end of the database
34	operation plan to ensure that the case statement is evaluated only
35	after other conditions of the database operation are satisfied, so that
36	the auditing record is created only for rows that are actually
37	accessed by the database operation.
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1	27 (Canceled).
1	28. (Currently amended) The method of claim 26 claim 27, wherein the
2	auditing condition includes a condition for at least two fields within the relational
3	database.
1	29. (Currently amended) A computer-readable storage medium storing
2	instructions that when executed by a computer cause the computer to perform a
3	method for selectively auditing accesses to a relational database, the method
4	comprising:
5	receiving a database operation for the relational database;
6	selectively auditing an access to the relational database based on an
7	auditing condition, wherein the auditing condition specifies a condition based on a
8	value of a field in a row in the relational database;
9	processing the database operation to produce a database operation result,
10	wherein processing the database operation includes:
11	creating the auditing records for selected rows in the

12	relational database that are accessed by the database operation,
13	wherein the selected rows satisfy the auditing condition, and
14	recording the audit record in an audit record store; and
15	returning the database operation result;
16	wherein selectively auditing the access involves automatically modifying
17	the database operation prior to processing the database operation;
18	wherein processing the database operation causes an audit record to be
19	created and recorded only for rows in relational tables that are accessed by the
20	database operation and that satisfy an auditing condition;
21	wherein satisfying the auditing condition allows selective auditing of the
22	database operation and not for other rows;
23	wherein satisfying the auditing condition allows selective auditing of the
24	database operation;
25	wherein if the database operation includes a select statement, inserting a
26	case statement into the select statement that calls a function that causes the audit
27	record to be created and recorded if the auditing condition is satisfied; and
28	wherein if inserting the case statement into the database operation further
29	comprises inserting the case statement into the database operation:
30	allowing a database operation processor to allocate buffer
31	for the database operation,
32	removing the case statement from the database operation,
33	allowing the database operation processor to generate a
34	database operation plan for the database operation, and
35	scheduling the case statement near the end of the database
36	operation plan to ensure that the case statement is evaluated only
37	after other conditions of the database operation are satisfied, so that
38	the auditing record is created only for rows that are actually
39	accessed by the database operation.
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30 (Canceled).

1	31. (Currently amended) The computer-readable storage medium of ottam
2	29 claim 30, wherein the auditing condition includes a condition for at least two
3	fields within the relational database.
1	32. (Currently amended) An apparatus for selectively auditing accesses to
2	a relational database, comprising:
3	a receiving mechanism configured to receive a database operation for the
4	relational database;
5	a selective auditing mechanism configured to selectively audit an access to
6	the relational database based on an auditing condition, wherein the auditing
7	condition specifies a condition based on a value of a field in a row in the relational
8	database;
9	a processing mechanism configured to process the database operation to
10	produce a database operation result;
11	a creating mechanism configured to create the auditing records for
12	selected rows in the relational database that are accessed by the database
13	operation, wherein the selected rows satisfy the auditing condition, and
14	a recording mechanism configured to record the audit record in an audit
15	record store; and
16	a returning mechanism configured to return the database operation result;
17	wherein selectively auditing the access involves automatically modifying
18	the database operation prior to processing the database operation;
19	wherein processing the database operation causes an audit record to be
20	created and recorded only for rows in relational tables that are accessed by the
21	database operation and that satisfy an auditing condition;

22	wherein satisfying the auditing condition allows selective auditing of the
23	database operation and not for other rows;
24	wherein satisfying the auditing condition allows selective auditing of the
25	database operation;
26	wherein if the database operation includes a select statement, inserting a
27	case statement into the select statement that calls a function that causes the audit
28	record to be created and recorded if the auditing condition is satisfied; and
29	wherein if inserting the case statement into the database operation further
30	comprises inserting the case statement into the database operation:
31	allowing a database operation processor to allocate buffer
32	for the database operation,
33	removing the case statement from the database operation,
34	allowing the database operation processor to generate a
35	database operation plan for the database operation, and
36	scheduling the case statement near the end of the database
37	operation plan to ensure that the case statement is evaluated only
38	after other conditions of the database operation are satisfied, so that
39	the auditing record is created only for rows that are actually
40	accessed by the database operation.
1	33 (Canceled).
1	34. (Currently amended) The apparatus of claim 32 claim 33, wherein the

auditing condition includes a condition for at least two fields within the relational database.

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